

REMARKS

Claim 1 is pending in the present patent application. Applicant cancels claim 1 without prejudice and presents additional claims 2-35. Applicant reserves the right to further prosecute former claim 1 in a continuation or divisional application. Applicant submits that additional claims 2-35 are fully supported by the specification, figures and claims as originally filed, and that no new matter has been introduced herein. Applicant respectfully requests examination and consideration of additional claims 2-35.

Respectfully submitted,

THE HECKER LAW GROUP

Date: 7-17-01

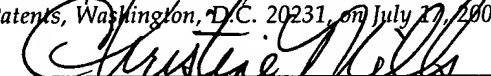
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CERTIFICATE OF MAILING

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Signature: Christine Mills Date: July 17, 2001

CLAIMS

What is claimed is:

1. (CANCELED).

Please consider the following additional claims:

- 2. (NEW) A method for synchronizing information between a first computer and a second computer comprising:
 - initializing a communication system between a first computer and a second computer;
 - accepting user input at said first computer;
 - creating first computer values associated with said user input;
 - said first computer constructing a first package, wherein said first package comprises said first computer values;
 - transmitting said first package to said second computer;
 - said second computer constructing synchronization information based on said first package, wherein said constructing synchronization information comprises:
 - comparing said first computer values from said first package with second computer variables;
 - associating information resulting from said comparing with said synchronization information;
 - said second computer transmitting said synchronization information to said first computer;

Version with markings to show changes

updating said first computer with said synchronization information.--

--3. (NEW) A method for synchronizing information between a first computer and a second computer comprising:

initializing a communication system between a first computer and a second computer, said communication system comprising:

maintaining keys and values;

accepting user input;

determining when to invoke an action;

said first computer constructing a first package, wherein said first package is comprised of said keys and values;

said first computer transmitting said first package to said second computer;

synchronizing information between said second computer and said first computer, said synchronizing comprising:

obtaining said first package at said second computer;

binding said keys and values from said first package to variables in said second computer;

constructing synchronization information based on said first package, wherein said constructing synchronization information comprises:

comparing said bound variables with said keys and values from said first package to determine changed keys and values;

placing said changed keys and said values in said synchronization information;

Version with markings to show changes

transmitting said synchronization information to said first computer;

updating said first computer with said synchronization information.--

--4. (NEW) A method for synchronizing information between a first computer and a second computer comprising:

initializing a communication system between a first computer and a second computer, said communication system comprising:

maintaining values;

accepting user input at said first computer; and

determining when to invoke an action;

wherein said initializing said communication system further comprises creating a second computer dictionary of said values;

said first computer constructing a first package, wherein said first package is comprised of first package variables;

transmitting said first package to said second computer;

synchronizing information between said second computer and said first computer, said synchronizing comprising:

using said first package;

updating said second computer dictionary with said first package variables;

binding said second computer dictionary values to variables in said second computer;

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constructing synchronization information based on said first package, wherein said constructing synchronization information comprises:

- comparing said bound variables with said second computer dictionary values;
- associating said values that have changed with said synchronization information;
- transmitting said synchronization information comprising said values to said first computer;
- updating said first computer with said synchronization information.--

--5. (NEW) A method for synchronizing information between a first computer and a second computer comprising:

- initializing a communication system between a first computer and a second computer, said communication system comprising:
 - maintaining second computer variables in said second computer;
 - accepting user input at said first computer;
 - determining when to invoke an action;
- obtaining a first package, wherein said first package is comprised of first computer values;
- transmitting said first package to said second computer;
- synchronizing information between said second computer and said first computer, said synchronizing comprising:
 - said second computer using said first package to invoke an action;

Version with markings to show changes

said second computer constructing synchronization information based on said first package, wherein said constructing synchronization information comprises:

comparing said first computer values from said first package with said second computer variables;

including information resulting from said comparing in said synchronization information;

transmitting said synchronization information to said first computer;

updating said first computer with said synchronization information.--

--6. (NEW) A method for synchronizing information between a first computer and a second computer comprising:

initializing a communication system between a first computer and a second computer, said communication system comprising;

maintaining keys and values;

accepting user input; and

determining when to invoke an action;

constructing a first package, wherein said first package is comprised of said keys and values;

transmitting said first package to said second computer;

synchronizing information between said second computer and said first computer, said synchronizing comprising:

said second computer using said first package;

Version with markings to show changes

binding said keys and values from said first package to variables in said second computer;

said second computer obtaining synchronization information based on said first package, wherein said obtaining synchronization information comprises:

comparing said bound variables with said keys and values from said first package;

placing said keys and said values associated with said first package keys and values in said synchronization information;

said second computer transmitting said synchronization information to said first computer;

updating said first computer with said synchronization information.--

--7. (NEW) The method of claim 5 wherein said initializing a communication system further comprises:

creating a controller;

creating an action coordinator; and

creating an association between said controller and said action coordinator.--

--8. (NEW) The method of claim 3 wherein said initializing a communication system further comprises:

extracting said keys and said values; and

creating a first computer dictionary of said extracted keys and extracted values on said first computer.--

Version with markings to show changes

--9. (NEW) The method of claim 6 wherein said constructing a first package further comprises:

placing in said first package said keys and their corresponding values that have changed at said first computer as a result of said user input.--

--10. (NEW) The method of claim 7 further comprising:

transmitting said first package from said action coordinator to a communications channel; and

transmitting said first package from said communications channel to said second computer.--

--11. (NEW) The method of claim 5 wherein said synchronizing further comprises:

binding said first computer values to said second computer variables.--

--12. (NEW) The method of claim 4 wherein said synchronizing further comprises:

binding said first package variables to variables in said second computer.--

--13. (NEW) The method of claim 6 wherein said synchronization information comprises updated keys and updated values.--

--14. (NEW) The method of claim 10 further comprising:

transmitting said synchronization information from said second computer to said communications channel; and

Version with markings to show changes

transmitting said synchronization information from said communications channel to said action coordinator.--

--15. (NEW) The method of claim 8 wherein said synchronizing information between said first computer and said second computer further comprises updating said first computer dictionary with said keys and said values from said synchronization information.--

--16. (NEW) The method of claim 2 wherein said synchronizing information between said first computer and said second computer comprises:
displaying said updated values at said first computer.--

--17. (NEW) The method of claim 7 wherein said synchronizing information between said second computer and said first computer further comprises:
transmitting updated values from said synchronization information to said action coordinator;
displaying said updated values at said first computer.--

--18. (NEW) An article of manufacture comprising:
a computer usable medium having computer readable program code embodied therein for synchronizing information between a first computer and a second computer, the computer readable program code in said article of manufacture comprising:

Version with markings to show changes

computer readable program code configured to initialize a communication system, said communication system comprising computer readable program code configured to cause said computer to:

- maintain keys and values;
- accept user input; and
- determine when to invoke an action;

computer readable program code configured to cause said first computer to construct a first package, wherein said first package is comprised of said keys and values;

computer readable program code configured to transmit said first package to said second computer;

computer readable program code configured to synchronize information between said second computer and said first computer, said code comprising:

- code configured to cause said second computer to obtain said first package at said second computer;

- computer readable program code configured to bind said second computer dictionary's values to variables in said second computer;

- code configured to cause said second computer to obtain synchronization information, wherein said computer readable program code configured to obtain synchronization information further comprises:

- computer readable program code configured to compare said bound variables with said keys and values from said first package;

- computer readable program code configured to place said keys and said values associated with said first package keys and values in said synchronization information;

Version with markings to show changes

code configured to cause said second computer to transmit said synchronization information to said first computer;

code configured to cause said first computer to be updated with said synchronization information.--

--19. (NEW) The article of manufacture of claim 18 wherein said computer readable program code configured to initialize a communication system further comprises:

computer readable program code configured to create a controller;
computer readable program code configured to create an action coordinator; and

computer readable program code configured to create an associations between said controller and said action coordinator.--

--20. (NEW) The article of manufacture of claim 18 wherein said computer readable program code configured to initialize a communication system further comprises:

computer readable program code configured to extract said keys and said values; and

computer readable program code configured to create a first computer dictionary of said extracted keys and extracted values on said first computer.--

--21. (NEW) The article of manufacture of claim 18 wherein said computer readable program code configured to construct a first package comprises:

Version with markings to show changes

computer readable program code configured to place said keys and their corresponding values that have changed at said first computer as a result of said user input in said first package.--

--22. (NEW) The article of manufacture of claim 19 further comprising:
computer readable program code configured to transmit said first package from said action coordinator to a communications channel; and
computer readable program code configured to transmit said first package from said communications channel to said second computer.--

--23. (NEW) The article of manufacture of claim 18 wherein said synchronization information comprises updated keys and updated values.--

--24. (NEW) The article of manufacture of claim 22 wherein said computer readable program code configured to synchronize information between said second computer and said first computer further comprises:
computer readable program code configured to transmit said synchronization information from said second computer to said communications channel; and
computer readable program code configured to transmit said synchronization information from said communications channel to said action coordinator.--

--25. (NEW) The article of manufacture of claim 20 wherein said computer readable program code configured to synchronize information between said second computer and said first computer comprises:

Version with markings to show changes

computer readable program code configured to update said first computer dictionary with said keys and said values from said synchronization information.--

--26. (NEW) The article of manufacture of claim 18 wherein said computer readable program code configured to synchronize information between said second computer and said first computer comprises:

computer readable program code configured to display said updated values at said first computer.--

--27. (NEW) The article of manufacture of claim 19 wherein said computer readable program code configured to synchronize information between said second computer and said first computer further comprises:

computer readable program code configured to transmit updated values from said synchronization information to said action coordinator;

computer readable program code configured to display said updated values.--

--28. (NEW) A system for synchronizing information between a client and a server comprising:

a means for initializing a communication system between said client and said server;

a means for constructing a first package having client synchronization information;

a means for transmitting said first package;

a means for updating said server with said first package;

Version with markings to show changes

a means for constructing server synchronization information based on said first package;

a means for transmitting said server synchronization information to said client;

a means for said updating said client with said server synchronization information.--

--29. (NEW) The system of claim 28, wherein said means for initializing a communication system between said client and said server further comprises:

a means for creating a controller;

a means for creating associations;

a means for creating an action coordinator;

a means for connecting said associations to said action coordinator.--

--30. (NEW) The system of claim 28, wherein said means for initializing a communication system between said client and said server further comprises:

a means for creating a server dictionary and a client dictionary.--

--31. (NEW) The system of claim 28, wherein said means for constructing a first package further comprise:

a means for sending information that has changed at said client to said server.--

--32. (NEW) The system of claim 28, wherein said means for constructing server synchronization information further comprises:

Version with markings to show changes

a means for sending information that has changed at said server to said client.--

--33. (NEW) The system of claim 28, further comprising means for binding said client synchronization information to variables in said server.--

--34. (NEW) The system of claim 30, further comprising means for updating said client dictionary with said server synchronization information.--

--35. (NEW) The system of claim 29, further comprising means for transmitting said server synchronization information to said action coordinator.--